PATENT COOPERATION TREATY

To:					PCT
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				Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)
Applicant's or agent's file reference see form PCT/ISA/220				FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/US2005/008559			International filing date (a	lay/month/year)	Priority date (day/month/year) 01.04.2004
	national Patent Classif	fication (IPC) or	both national classification	and IPC	·
	icant INNOVATIVE PRO	OPERTIES C	COMPANY		
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2005/008559

	Box No. I Basis of the opinion				
1.	With regard to the language, this opinion has been established on the basis of the international application in he language in which it was filed, unless otherwise indicated under this item.				
	This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).				
2.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:				
·	a. type of material:				
	a sequence listing				
	☐ table(s) related to the sequence listing				
	b. format of material:				
	☐ in written format				
	in computer readable form				
	c. time of filing/furnishing:				
	☐ contained in the international application as filed.				
	☐ filed together with the international application in computer readable form.				
	furnished subsequently to this Authority for the purposes of search.				
3 .	In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.				
4.	Additional comments:				
Ξ	Box No. II Priority				
1.	The validity of the priority claim has not been considered because the International Searching Authority does not have in its possession a copy of the earlier application whose priority has been claimed or, where required, a translation of that earlier application. This opinion has nevertheless been established on the assumption that the relevant date (Rules 43bis.1 and 64.1) is the claimed priority date.				
2.	This opinion has been established as if no priority had been claimed due to the fact that the priority claim has been found invalid (Rules 43 <i>bis</i> .1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.				
3	Additional observations, if necessary:				

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2005/008559

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

4-6,8

No:

Claims

1-3,7,9

Inventive step (IS)

Yes: Claims

4-6

No: Claims

1-3,7-9

Industrial applicability (IA)

Yes: Claims

1-9

No: Claims

2. Citations and explanations

see separate sheet

Re Item V.

- 1 Reference is made to the following documents:
 - D1: US-A-5 902 146 (HANAMI ET AL) 11 May 1999
 - D2: EP-A-1 337 009 (SUMITOMO WIRING SYSTEMS, LTD) 20 August 2003
 - D3: US-A-4 632 486 (HASIRCOGLU ET AL) 30 December 1986
 - D4: US-A-4 464 002 (SUZUKI ET AL) 7 August 1984
 - D5: PATENT ABSTRACTS OF JAPAN vol. 2002, no. 05, 3 May 2002 & JP 2002 025667 A (HIROSE ELECTRIC CO LTD), 25 January 2002
- The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1-3,7 and 9 is not new in the sense of Article 33(2) PCT.
- 2.1 The subject-matter of claim 1 is not new because document D1 discloses (the references in parenthesis applying to this document):

"A connector (figures 1-2) comprising:

- a terminal element (6) having an insulation-displacement type conductor-connecting section (6B) connectable to a conductor of an electric wire (C2) and a contact section (6A) capable of coming into conductive contact with a corresponding terminal element of a counterpart connector (20); and
- an electrical insulating body (2) for supporting said terminal element (column 3, lines 13-14) while exposing said contact section (figure 2);

wherein said body includes a fitting portion (9) capable of fitting to the counterpart connector while positioning said contact section of said terminal element with respect to the corresponding terminal element (column 3, lines 15-19); and wherein said conductor-connecting section and said contact section of said terminal element are arranged to be aligned with each other in a direction intersecting a connector fitting direction determined by said fitting portion (figure 2)."

2.2 The supplementary features and steps introduced by dependent claims 2-3,7 and 9 are also disclosed in D1, see concerning:

claims 2-3:

column 2, lines 59-62;

claim 7:

column 3, lines 14-15;

claim 9:

column 3, line 47 to column 4, line 6.

3. The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 8 does not involve an inventive step in the sense of Article 33(3) PCT.

The features of dependent claim 8 have already been employed for the same purpose in a similar "connector", see document D4, figure 7. It would therefore be obvious to the person skilled in the art, to apply these features and steps with corresponding effect to the "connector" disclosed in document D1, thus arriving obviously at a "connector" according to claim 8.

- 4. Claims 4-6 appear to meet the requirements of the PCT with respect to novelty and inventive step for the following reasons:
- 4.1 The subject-matter of claim 4 differs from D1 in that:

F1: "The connector further comprises a shield member incorporated in said second support member".

F2: "The shield member includes a securing portion for securing said first support member and said second support member to each other."

The problem to be solved by the present invention may therefore be regarded as P1: to find an alternative constructional solution for securing the "support members to each other". The solution is provided by the subject-matter of claim 4, see especially feature F2.

The invention is neither disclosed in nor rendered obvious by either one of the prior art documents listed in the International Search Report. Documents D2 and D5 disclose a connector comprising F1 but not F2. F2 is not disclosed in any of the documents of the International Search Report. Therefore, in view of the available prior art, claim 4 seems to be new and inventive.

4.2 The subject-matter of claim 6 differs from D1, inter alia, in that:

F3: "The contact section of said terminal element has a curved shape capable of conductively contacting with the corresponding terminal element of the counterpart connector at a plurality of points simultaneously"

The problem to be solved by the present invention may therefore be regarded as P2: to increase the contact area between the "terminal" and the "corresponding terminal element of the counterpart". The solution is provided by the subject-matter of claim 6, see especially feature F3.

The invention is neither disclosed in nor rendered obvious by either one of the prior art documents listed in the International Search Report. F3 is not disclosed in any of the documents of the International Search Report. Therefore, in view of the available prior art, claim 6 seems to be new and inventive.

4.3 Claim 5 is dependent on claim 4 and as such also seems to meet the requirements of the PCT with respect to novelty and inventive step.